

Title (en)  
IC MODULE, METHOD OF FABRICATING THE SAME AND IC CARD PROVIDED WITH IC MODULE

Title (de)  
IC-MODUL, SEIN HERSTELLUNGSVERFAHREN UND IC-KARTE DAMIT VERSEHEN

Title (fr)  
MODULE A CIRCUIT INTEGRE, PROCEDE DE FABRICATION DUDIT MODULE ET CARTE A CIRCUIT INTEGRE DOTE DUDIT MODULE

Publication  
**EP 0923047 A4 20010829 (EN)**

Application  
**EP 98931083 A 19980713**

Priority  
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Abstract (en)  
[origin: EP0923047A1] In the method of manufacturing an IC module (1) including a resin packaging process using upper and lower dies (5) for forming a cavity (50) while the dies are clamped, the resin packaging process is carried out by introducing a melted resin while a substrata (2) on which an IC chip (3) is placed and a coil (20A) which has a doughnut shape when observed from above and is flattened as a whole are housed in the cavity (50). When a substrate (2) on which an antenna coil (20) is patterned is to be packaged with a resin, the resin packaging process is carried out by forming a spacer (28) having an equal and almost equal height to the height of the cavity (50) on the substrate (2), housing it in the cavity (50), and introducing a melted resin. Instead of forming the spacer (28) on the substrate (2), a substrate (2) housed in a cavity (50) may be sucked. The manufacturing method can provide good protection of an IC chip and an antenna coil. <IMAGE>

IPC 1-7  
**G06K 19/077**; **B29C 45/14**

IPC 8 full level  
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